

M1015/0040  
cc: Wayne

Task: 5834

Bond Calculations Rockland Mine						
<b>Direct Costs*</b>						
Subtotal Demolition			0			
Subtotal Earthwork (14.7 ac)		\$	106,618.49			
Subtotal Revegetation (14.7 ac)		\$	22,200.00			
<b>Direct Costs Total</b>		\$	<b>128,818.49</b>			
<b>Indirect Costs</b>						
Performance Bond		\$	6,440.92	5.00%		
Project Management Fee		\$	6,440.92	5.00%		
Engineering Design		\$	3,220.46	2.50%		
Main Office Expense		\$	8,759.66	6.80%		
Project Management Fee		\$	3,220.46	2.50%		
<b>Indirect Costs Total</b>		\$	<b>28,082.43</b>			
<b>2013 Total Costs</b>		\$	<b>156,900.92</b>			
Escalation Factor				1.50%		
Number of Years				5		
Escalation		\$	12,125.93			
<b>2018 Reclamation Costs for Rockland Mine</b>		\$	<b>169,026.85</b>			
* Refer to the RM-110 reclamation map series and Figures 110.2-A through 110.2-E for bond estimation.						
<b>Note: The above cost estimates are calculated as if no contemporaneous reclamation is completed.</b>						
The Rockland Mine conducts contemporaneous reclamation at the site.						

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Means Unit Cost										
Line Number	Equipment	Crew	Daily Output	Labor Hours	Unit	Material	Labor	Equip	Total	Total Incl O&P
01 54 36.50.0100	Mob/Demob Dozer (for 50 mi RT)	B-34K	3	2.667	EA		\$ 73.00	\$ 142.00	\$ 215.00	\$ 269.00
01 54 36.50.0020	Mob/Demob Excavator (for 50 mi RT)	B34N	4	2	EA		\$ 97.50	\$ 320.00	\$ 417.50	\$ 505.00
01 54 36.50.2500	For each additional 5 miles distance (70 mi RT)						10%	10%		
31 2316.46.5020	300 hp Dozer, Common Earth, 100' Haul	B-10M	1650	0.007	BCY		\$ 0.32	\$ 1.11	\$ 1.43	\$ 1.70
31 2316.42.0300	Excavating, Common Earth, 3 yd Bucket	B-12D	2080	0.008	BCY		\$ 0.32	\$ 1.18	\$ 1.50	\$ 1.79
31 3713.10.0100	Riprap, machine placed for slope protection	B-12G	62	0.258	LCY	33.5	\$ 10.85	\$ 11.40	\$ 55.75	\$ 65.50
<b>Estimated Costs</b>										
Item	Quantity	Unit	Costs							
Mob/Demob	4	EA	\$ 4,554.00							
Dozer	43,625.20	BCY	\$ 62,384.04							
Excavator @ 25% of Total Quantity	10,906.30	BCY	\$ 16,359.45							
Riprap	500	LCY	\$ 27,875.00							
	Total		\$ 106,618.49							
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<b>Seeded Area</b>	11.6 acres									
<b>Pocking</b>										
This cost is added to the excavating cost in the earthwork. No additional cost here.										
Seed Mix for Rockland Mine										
Common Name	Scientific Name	lbs PLS/ ac	\$/LB*	\$/AC	Total					
Gardner Saltbrush	<i>Atriplex gardneri</i>	3	\$ 14.50	\$ 43.50	\$ 504.60					
Shadscale	<i>A. confertifolia</i>	2	\$ 16.00	\$ 32.00	\$ 371.20					
Fourwing Saltbrush	<i>A. canescens</i>	2	\$ 12.00	\$ 24.00	\$ 278.40					
Russian Wildrye	<i>Elymus juncea</i>	4	\$ 6.50	\$ 26.00	\$ 301.60					
Indian Ricegrass	<i>Oryzopsis hymenoides</i>	3	\$ 7.50	\$ 22.50	\$ 261.00					
Kochia	<i>Kochia prostrata</i>	0.5	\$ 14.00	\$ 7.00	\$ 81.20					
	<b>TOTALS</b>	14.5	\$ 70.50	\$ 155.00	\$ 1,798.00					
	<i>* Prices obtained from Stevensen Seed</i>									
<b>Hydromulch</b>						<b>2013 Bare Costs</b>				
Line Number	Equipment	Crew	Daily Output	Labor	Unit	Material	Labor	Equipment	Total	Total Incl O&P
32 92.19.0200	Synthetic Erosion Control, Soil Sealent, Sprayed from Truck	B-81	80	0.3	MSF	\$ 19.60	\$ 11.95	\$ 8.85	\$ 40.40	\$ 49.50
<b>Estimated Costs</b>										
Item	Quantity	Unit	Total							
Pocking	7.1	AC	\$ -							
Seed	11.6	AC	\$ 1,798.00							
Hydromulch	505	MSF	\$ 20,402.00							
	<b>TOTAL</b>		<b>\$ 22,200.00</b>							
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